



Pratt Center works for a more just, equitable, and sustainable city for all New Yorkers



Dramatically expanding residential energy efficiency



URBAN MANUFACTURING

Strengthening the industrial sector and protecting the wellpaying jobs it provides



COMMUNITY PLANNING, TRANSPORTATION EQUITY & RESILIENCY

Empowering communities to plan for and realize their futures



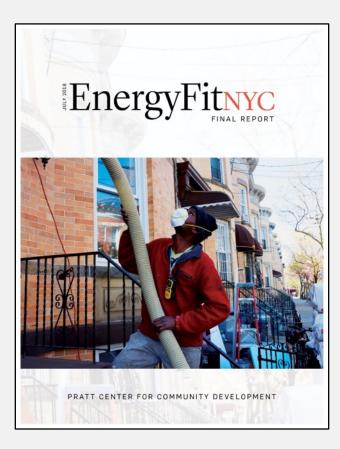
EQUITY IN THE INNOVATION ECONOMY

Advancing equity and inclusion in the innovation sector

PRATTCENTER.NET Follow us @prattcenter



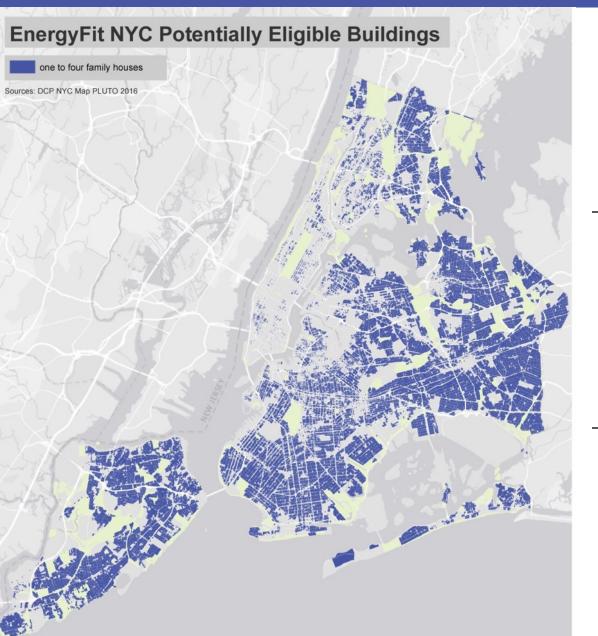
EnergyFit tested a standard measures program design for encouraging energy efficiency retrofits of 1-4 family buildings in NYC.



- Why EnergyFit?
- Brief pilot overview
- Recommendations

Why EnergyFit NYC





863,867

1-4 Family Buildings in NYC

29% low-income

36% moderate-income

35% higher income

19% of NYC's building carbon emissions



Existing Retrofit Programs have not addressed the NYC market

	New York State	New York City	NYC as % of Total
Total Number of Projects	49,717	861	1.73%
Assisted Home Performance (AHPwES)	20,688	463	2.24%
Home Performance (HPwES)	29,029	398	1.37%
	Energy Ef		ntial Existing Homes (1-4 units) ncome based Incentives by ₅

Why EnergyFit NYC

		<u></u>	
= /	ER	GY	FIT
			NYC

Barriers to participation

- 1. Complexity of retrofit process
- 2. Cost/limited incentives
- 3. Health & safety issues
- 4. Time





Model an energy retrofit program for NYC's 1-4 family homes that leverages the uniqueness of this building stock and understands the needs of NYC homeowners

- Dramatically scale the number of residential retrofits in NYC's dense low- and moderate-income communities through a standardized retrofit approach
- Enable homeowners to easily and efficiently reduce energy consumption and costs, and address health and safety issues
- Create a model that can be expanded into a citywide program

Pilot Details



- Building typology: 1-2 family, pre-1930s, gas-heated, masonry, attached homes
- Each home had the same package of energy efficiency measures installed
 - 32 buildings received retrofit





Priority tiered air sealing and weather stripping of the building

Air sealing and insulating the

roof hatch

Air analises and

Air sealing and insulating the attic cavity



Health and safety tests and improvements

Post retrofit:

- 1 year post-retrofit energy usage monitoring;
- quarterly homeowner surveying



Offer a Standard Package of retrofit measures

- Clearly explained, predetermined energy efficiency measures widely needed in the targeted building typology.
- 2. Tiered options
- Consistent, structured pricing based on income levels; incentives included in price
- Short walk-through evaluation; no energy modeling

BASIC \$	MODERATE \$\$	ADVANCED \$\$\$
Lighting	Basic package +	Moderate package+
 Air Sealing & Weather stripping Low flow fixtures 	 Attic air sealing and insulation 	Additional energy efficiency measures/equip-
 Programmable thermostat 		ment

Add ons: ASHP, Triple Paned Windows, High Efficiency Boiler etc.

Recommendations: Homeowner Engagement

Simplify the homeowner engagement process

- 1. Reduced timeline and number of decision points
- 2. One continuous point of contact for advisement and support
- 3. More robust support for local energy advisors
- 4. Shared database for program administrators
- 5. Coordination and communication between State and City incentives



Recommendations: Health & Safety



Elevate the importance of Health & Safety in program design and communication

- 1. Increased direct messaging on health and safety
- 2. Funding for health and safety fixes for low- and moderateincome households

- /	ER	LΠY	
			NYC

Address additional barriers particular to moderate-income households

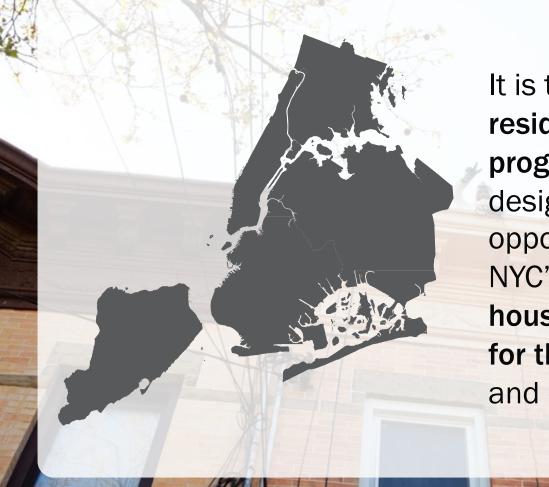
Offer a more nuanced, sliding scale incentive structure

Current Offering		
<60% AMI	Free	
60-80% AMI	50% Cost share	
>80% AMI	No incentive	

EXAMPLE EnergyFit Offering	
<60% AMI	Free
60-75% AMI	20% Cost Share
75-90% AMI	40% Cost Share
90-105% AMI	60% Cost Share
105-120% AMI	80% Cost Share
>120% AMI	No incentive

Conclusion





It is time for a NYC-focused residential energy efficiency program, specifically designed to leverage the opportunities that arise from NYC's unique 1-4 family housing stock, and crafted for the families who live in and own these buildings.



GET IN TOUCH Rebekah Morris RMorris@prattcenter.net

FOLLOW US @prattcenter